

Safety Data Sheet



Revision Date: 9/13/2014

SDS # SDS-10223-01

5% Sodium Dodecyl Sulfate Solution

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:

Product Code

5% Sodium Dodecyl Sulfate Solution (5% SDS)

51-20-10

5% Sodium Dodecyl Sulfate Solution (5% SDS)

51-20-01

Hazardous Reagent

5% Sodium Dodecyl Sulfate Solution (5% SDS)

Hazardous Reagent Product code

Catalog No. listed above

Recommended Use Reagent

Contact Manufacturer KPL, Inc.
910 Clopper Road
Gaithersburg, Maryland 20878
USA

Phone #: 1-301-948-7755

Fax #: 1-301-948-0169

Web: www.kpl.com

Email: kplmsds@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER
CANADIAN TRANSPORT EMERGENCY CENTER
UK – THE NATIONAL FOCUS
USA- NATIONAL RESPONSE CENTER

Telephone: 13 11 26
Telephone: (1) 613 996 6666
Telephone: (44) 029 2041 6388
Telephone: (1) 800 424 8802

Hours: 24 hours
Hours: 24 hours/day, 7 days/week
Hours: 09:00-17:00 GMT
Hours: 24 hours/day, 7 days/week

CHEMTREC:

CHEMTREC Customer Number:- CCN12505*
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN12505 or
+1 703-527-3887 (collect calls accepted)

2. HAZARD IDENTIFICATION

Hazard Type

Data for 100% Sodium Dodecyl Sulfate: Combustible and Irritant

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Classification

Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 3), H402

Hazard Statement

H315 Causes skin irritation.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.

Precautionary Statement

P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.
 P501 Dispose of contents/ container to an approved waste disposal plant.

Symbols of Danger

GHS05
 Danger

**Data for 100% Hazardous Chemical**

ROUTES OF EXPOSURE: The substance can be absorbed into the body through the skin and by ingestion .

INHALATION RISK: Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

SHORT-TERM EXPOSURE: The substance is irritating to the eyes, the skin and the respiratory tract .

LONG-TERM EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis.

The product is a Mixture. It May Cause the following symptoms.

EYES: Redness. Pain.

SKIN: Redness.

INHALATION: Sore throat. Cough.

INGESTION: Nausea. Vomiting. Diarrhoea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
5% Sodium Dodecyl Sulfate Solution	Sodium Dodecyl Sulfate	5%	151-21-3

<u>Classification</u>	
	Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 3), H402

4. FIRST AID MEASURES

Data for 100% Hazardous Chemical

Ingestion First Aid: Rinse mouth. Refer for medical attention.

Inhalation First Aid: Fresh air, rest.

Skin First Aid: Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

Eye First Aid: First rinse with plenty of water (remove contact lenses if easily possible). Refer for medical attention.

5. FIRE FIGHTING MEASURES

Data For 100% Hazardous Chemical

Fire Acute Hazard:	Fire Prevention:	Fire Fighting:
Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide .
Explosion Acute Hazard:		
Not Available	Not Available	Not Available

CHEMICAL DANGERS: The substance decomposes on burning producing toxic and corrosive gases including carbon monoxide (See ICSC 0023, 0074 and 1202). Reacts with strong oxidants and strong acids .

PHYSICAL DANGERS: Not Available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Data for 100% Dodecyl Sulfate, Sodium Salt: Particulate filter adapted to the airborne concentration of the substance.
Environmental Precautions	Not Available
Method of Containment	Collect leaking and spilled liquid in sealable containers as far as possible.
Methods of Clean-up	Clean-up with copious amounts of water.
Other Information	Not Available

Data for 100% Hazardous Chemical

SPILLAGE DISPOSAL Personal protection: particulate filter adapted to the airborne concentration of the substance. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Do NOT let this chemical enter the environment.

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice.
Storage:	Store at room temperature (22 – 28°C)

Data for 100% Hazardous Chemical

STORAGE Separated from strong oxidants and strong acids. Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access.

8. EXPOSURE CONTROL

Data for 100% Hazardous Chemical

• INHALATION	Ventilation, local exhaust, or breathing protection.
• EYES	Safety goggles. Safety spectacles
• SKIN	Protective gloves.
• INGESTION	Do not eat, drink, or smoke during work.

Engineering Controls Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Colorless Solution	
Physical State	Liquid	pH: Not Available

Data for 100% Hazardous Chemical

Melting point: 204°C	Solubility in water, g/100ml at 20°C: 15 (moderate)	Octanol/water partition coefficient as log Pow: 1.6
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10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Incompatibility Materials to Avoid	Data for 100% Dodecyl Sulfate, Sodium Salt: Strong oxidants and strong acids .
Hazardous Decomposition Products	Not Available

Hazardous Polymerization Will not occur

Data for 100% Hazardous Chemical

CHEMICAL DANGERS:	The substance decomposes on burning producing toxic and corrosive gases including carbon monoxide (See ICSC 0023, 0074 and 1202). Reacts with strong oxidants and strong acids .
PHYSICAL DANGERS:	Not Available

11. TOXICOLOGY MEASURES

Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

LD50 Oral	Data for 100% Dodecyl Sulfate, Sodium Salt: LD50 Rat 977 mg/Kg bw (Acutely Toxic)
LD50 Dermal	Data for 100% Dodecyl Sulfate, Sodium Salt: LD50 Rabbit 580 mg/Kg bw (Acutely toxic)
LC50 Inhalation	Not Available

Chronic Toxicity

Carcinogenicity	Not Applicable
Irritation	Data for 100% Dodecyl Sulfate, Sodium salt: Risk Phrases - R36/37/38 Irritating to eyes, respiratory system and skin; R 21/22 Harmful in contact with skin and if swallowed
Corrosivity	Not Applicable
Sensitization	Data for 100% Dodecyl Sulfate, Sodium salt: May produce Allergic sensitivity reactions
Neurological Effects	Not Applicable
Mutagenic Effects	Not Applicable
Reproductive Effects	Not Applicable
Developmental Effects	Not Applicable
Target Organ Effects	Not Applicable
Other adverse effects	Not Applicable

12. ECOLOGICAL MEASURES

Ecotoxicity	Data for 100% Dodecyl Sulfate, Sodium Salt: Fish (Fundulus heteroclitus) Static 96hr LC50 1.2 mg/L (Slightly harmful in the aquatic environment or are otherwise designed for biocidal action)
Persistence/Degradability	Data for 100% Dodecyl Sulfate, Sodium Salt: Rapidly degradable
Mobility in Environmental Media	Not Available
Bioaccumulation/ Accumulation	Data for 100% Dodecyl Sulfate, Sodium Salt: Fish (Proterorhinus marmoratus 240 day 15°C 4 mg/L BCF 7.15 (Not bioaccumulative)

13. DISPOSAL MEASURES

Waste Disposal Method:	Observe all Federal, State and Local laws concerning health and pollution.
Contaminated Packaging:	Not Available
US EPA Waste Number:	Not Available

14. TRANSPORTATION MEASURES

DOT:	Not Available
IATA:	Not Available

ADR (road)/ RID (rail): Not Available

IMDG (sea): Not Available

General Transport Regulations Not Available

15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

Not Listed

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals: None

State Right to Know Act

Chemical Name	Sodium Dodecyl Sulfate
Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
New York	Not Listed
Rhode Island	Not Listed

International Inventories

Chemical Name	Sodium Dodecyl Sulfate
TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
CHINA	Listed
KECL	Listed
JAPAN:	Listed
AICS	

EU Regulations

Annex I Index#	Sodium Dodecyl Sulfate: Annex # Not Available CAS No:151-21-3 EC No:205-788-1 SUBSTANCE GROUP CODE 122200 Sodium compounds 147875Salts of sulphuric acid esters
Classification	Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 3), H402
Risk Phrases	H315 Causes skin irritation. H318 Causes serious eye damage. H402 Harmful to aquatic life.
Safety Phrases	P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents/ container to an approved waste disposal plant.

Symbols and Indications of Danger

GHS05
Danger

Specific Concentration Limits

Not Available

Export and Import

This substance is not listed in the Annex I of Regulation (EC) No 689/2008.

European Priority List

This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

16. OTHER INFORMATION

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

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